



The AV11-MC is factory pre-calibrated and ready for use as received. However, if the AV11-MC sensor cables are changed or lengthened or, if the sensors are replaced, then re-calibration of the temperature response of the AV11-MC may be needed for best operation.

WARNING
CALIBRATION MUST BE DONE BY A LICENSED ELECTRICIAN ONLY. Calibration creates an exposure to a dangerous shock hazard which could be life threatening.

Refer to Figure 1 for a diagram of the AV11-MC internal adjustment components.
To calibrate the AV11-MC, follow these steps:

1. DISCONNECT ELECTRICAL POWER TO THE AV11-MC. Disconnect the electrical connector from the solenoid valve. Ensure that the connector is protected from moisture or contact with any conductor that may create a short circuit across the connector.
2. Measure the actual room temperature at the sensor location with a thermometer.
3. Open the AV11-MC enclosure to reveal the printed circuit board. Move the slide switch at the top left-hand corner of the larger printed circuit board to the VENT position.
4. Set the TEMPERATURE SET-POINT knob (the middle knob on the front of the AV11-MC enclosure) to 95 °F or above.
5. Set the MINIMUM SPEED knob (the bottom knob on the front of the AV11-MC enclosure) to zero.
6. Ensure that all exposed wires and the printed circuit board are not touching any conductors and then reapply power to the AV11-MC control.
7. Adjust the SPEED TRIM control (the shaft that extends from the back of the circuit board) until the fan(s) slows down, but maintains enough speed to keep shutters open and air moving. Motor RPM should be between 550 and 700 RPM at this setting, but an exact RPM setting is not necessary. Pause after each adjustment for motor speed to stabilize.
8. Move the slide switch located near the top left-hand corner of the larger printed circuit board to the COOL position.
9. Set the TEMPERATURE SET-POINT knob to the room temperature measured in Step 2.
10. With a small screwdriver, adjust the TEMP CAL control, located at the middle right side of the printed circuit board, until the fan(s) just barely stops.
11. Move the slide switch back to the operating position, either VENT or COOL as necessary. In the VENT mode, the fan should be running at the minimum speed.
12. Set the TEMPERATURE SET-POINT knob to the minimum setting (35 °F). Set the MISTING DIFFERENTIAL knob to its minimum setting. Set the MIST CUT OFF control located near the bottom right hand corner of the smaller circuit board to the minimum setting (0). Move the CALIBRATE slide switch located near the top left-hand corner of the smaller circuit board to the CAL position.
13. Adjust the CAL control located in the top left-hand corner of the smaller circuit board until the light is on dimly.
14. Move the CALIBRATE slide switch to the NORM position. Set the MIST CUT OFF control to the desired value (factory set to 3).
15. DISCONNECT ELECTRICAL POWER TO THE AV-11-MC. Then reassemble the AV11-MC and reconnect electrical power. Calibration is complete. Set the AV11-MC control knobs for normal operation and check the operation of fans and solenoid valve.

FIGURE 1

AV-11-MC CONTROL DIAGRAM

